

Moody, Jonathan

From: Olyphant, Jeffrey <JOlyphant@peabodyenergy.com>
Sent: Wednesday, October 14, 2015 9:47 AM
To: Moody, Jonathan
Subject: Francisco Mine Withdrawal and Sounding Data
Attachments: removed.txt; Patoka Withdrawal & RB Sounding Tables.pdf

Jonathan,

Please find attached the available Patoka River withdrawal data and the sounding information for Refuse Basin 004 and 005. Please note that the electric hour meter was not installed for the Patoka River pump until September 2014 and the metered hours and estimated withdrawals are only available since the time of installation. The usage volume was calculated from the metered hours and the pumps maximum capacity (900 gallons per minute) and is likely an overestimation of the true withdrawal.

Although we do not track the internal pumpage of water within our disposal circuit we do utilize the available water within the circuit as return water for our preparation plant. Significant efforts are made to pump the available water amongst the various ponds to maximize the circuit's storage and water availability for the plant. This is particularly important for us during dry periods and does play a role in reducing discharge frequency and duration.

While we do not have a detailed water balance for our facility it is important to keep in mind that there are several water losses that are inherent in the coal preparation process and the mines daily operational activities. Moisture is added to the clean coal at the rate of approximately 4.5 gallons per clean ton as well as to the coarse refuse at approximately 9 gallons per clean ton. This typically results in a loss of approximately 40 million gallons annually. Other losses include water use for dust control on the gravel roads (~3.5 million gallons annually) and underground mines equipment and belts (~40 to 45 million gallons annually). The significance of these losses is evident in the increased usage of the Patoka River intake during the dry periods of the year.

Jeff

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